SEQUENCE LISTING

<110> Inventors: Michele A. McTigue, Steven L. Bender, Allen Borchardt, Robert S. Kania, Chris Pinko, John A. Wickersham

<120> Crystal Structure of VEGFRKD: Ligand Complexes and Methods of Use Thereof

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<140> New Filing

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Ala lle Leu Thr Gly Asn Ser Gly Phe Thr Tyr Ser Thr Pro Ala 1175 1180 1185

Phe Ser Glu Asp Phe Phe Lys Glu Ser Ile Ser Ala Pro Lys Phe 1190 1195 1200

Asn Ser Gly Ser Ser Asp Asp Val Arg Tyr Val Asn Ala Phe Lys 1205 1210 1215

Phe Met Ser Leu Glu Arg IIe Lys Thr Phe Glu Glu Leu Leu Pro 1220 1225 1230

Asn Ala Thr Ser Met Phe Asp Asp Tyr Gln Gly Asp Ser Ser Thr 1235 1240 1245

Leu Leu Ala Ser Pro Met Leu Lys Arg Phe Thr Trp Thr Asp Ser 1250 1255 1260

Lys Pro Lys Ala Ser Leu Lys lle Asp Leu Arg Val Thr Ser Lys 1265 1270 1275

Ser Lys Glu Ser Gly Leu Ser Asp Val Ser Arg Pro Ser Phe Cys 1280 1285 1290

His Ser Ser Cys Gly His Val Ser Glu Gly Lys Arg Arg Phe Thr

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Ile Ser Cys Arg Gly Gln His Pro Leu Glu Trp Ala Trp Pro Gly Ala 50 55 60

Gin Giu Ala Pro Ala Thr Giy Asp Lys Asp Ser Giu Asp Thr Giy Val 65 70 75 80

Val Arg Asp Cys Glu Gly Thr Asp Ala Arg Pro Tyr Cys Lys Val Leu 85 90 95 Leu Leu His Glu Val His Ala Asn Asp Thr Gly Ser Tyr Val Cys Tyr 100 105 110

Tyr Lys Tyr lle Lys Ala Arg lle Glu Gly Thr Thr Ala Ala Ser Ser 115 120 125

Tyr Val Phe Val Arg Asp Phe Glu Gln Pro Phe Ile Asn Lys Pro Asp 130 135 140

Thr Leu Leu Val Asn Arg Lys Asp Ala Met Trp Val Pro Cys Leu Val 145 150 155 160

Ser Ile Pro Gly Leu Asn Val Thr Leu Arg Ser Gln Ser Ser Val Leu 165 170 175

Trp Pro Asp Gly Gln Glu Val Val Trp Asp Asp Arg Arg Gly Met Leu 180 185 190

Val Ser Thr Pro Leu Leu His Asp Ala Leu Tyr Leu Gln Cys Glu Thr 195 200 205

Thr Trp Gly Asp Gln Asp Phe Leu Ser Asn Pro Phe Leu Val His Ile 210 215 220

Thr Gly Asn Glu Leu Tyr Asp Ile Gln Leu Leu Pro Arg Lys Ser Leu 225 230 235 240

Glu Leu Leu Val Gly Glu Lys Leu Val Leu Asn Cys Thr Val Trp Ala 245 250 255 Glu Phe Asn Ser Gly Val Thr Phe Asp Trp Asp Tyr Pro Gly Lys Gln 260 265 270

Ala Glu Arg Gly Lys Trp Val Pro Glu Arg Arg Ser Gln Gln Thr His 275 280 285

Thr Glu Leu Ser Ser Ile Leu Thr Ile His Asn Val Ser Gln His Asp 290 295 300

Leu Gly Ser Tyr Val Cys Lys Ala Asn Asn Gly lle Gln Arg Phe Arg 305 310 315 320

Glu Ser Thr Glu Val IIe Val His Glu Asn Pro Phe IIe Ser Val Glu 325 330 335

Trp Leu Lys Gly Pro Ile Leu Glu Ala Thr Ala Gly Asp Glu Leu Val 340 345 350

Lys Leu Pro Val Lys Leu Ala Ala Tyr Pro Pro Pro Glu Phe Gln Trp 355 360 365

Tyr Lys Asp Gly Lys Ala Leu Ser Gly Arg His Ser Pro His Ala Leu 370 375 380

Val Leu Lys Glu Val Thr Glu Ala Ser Thr Gly Thr Tyr Thr Leu Ala 385 390 395 400

Leu Trp Asn Ser Ala Ala Gly Leu Arg Arg Asn Ile Ser Leu Glu Leu 405 410 415

Val Val Asn Val Pro Pro Gln lle His Glu Lys Glu Ala Ser Ser Pro 420 425 430

Ser lle Tyr Ser Arg His Ser Arg Gln Ala Leu Thr Cys Thr Ala Tyr 435 440 445

Gly Val Pro Leu Pro Leu Ser lle Gln Trp His Trp Arg Pro Trp Thr 450 455 460

Pro Cys Lys Met Phe Ala Gin Arg Ser Leu Arg Arg Gin Gin Gin 465 470 475 480

Asp Leu Met Pro Gln Cys Arg Asp Trp Arg Ala Val Thr Thr Gln Asp 485 490 495

Ala Val Asn Pro lle Glu Ser Leu Asp Thr Trp Thr Glu Phe Val Glu
500 505 510

Gly Lys Asn Lys Thr Val Ser Lys Leu Val IIe Gln Asn Ala Asn Val 515 520 525

Ser Ala Met Tyr Lys Cys Val Val Ser Asn Lys Val Gly Gln Asp Glu 530 535 540

Arg Leu lle Tyr Phe Tyr Val Thr Thr lle Pro Asp Gly Phe Thr lle 545 550 555 560

Glu Ser Lys Pro Ser Glu Glu Leu Leu Glu Gly Gln Pro Val Leu Leu 565 570 575

Ser Cys Gln Ala Asp Ser Tyr Lys Tyr Glu His Leu Arg Trp Tyr Arg 580 585 590

Leu Asn Leu Ser Thr Leu His Asp Ala His Gly Asn Pro Leu Leu Leu 595 600 605

Asp Cys Lys Asn Val His Leu Phe Ala Thr Pro Leu Ala Ala Ser Leu 610 615 620

Glu Glu Val Ala Pro Gly Ala Arg His Ala Thr Leu Ser Leu Ser lle 625 630 635 640

Pro Arg Val Ala Pro Glu His Glu Gly His Tyr Val Cys Glu Val Gln 645 650 655

Asp Arg Arg Ser His Asp Lys His Cys His Lys Lys Tyr Leu Ser Val 660 665 670

Gin Ala Leu Glu Ala Pro Arg Leu Thr Gin Asn Leu Thr Asp Leu Leu 675 680 685

Val Asn Val Ser Asp Ser Leu Glu Met Gln Cys Leu Val Ala Gly Ala 690 695 700

His Ala Pro Ser Ile Val Trp Tyr Lys Asp Glu Arg Leu Leu Glu Glu 705 710 715 720

Lys Ser Gly Val Asp Leu Ala Asp Ser Asn Gin Lys Leu Ser Ile Gln 725 730 735 Arg Val Arg Glu Glu Asp Ala Gly Arg Tyr Leu Cys Ser Val Cys Asn 740 745 750

Ala Lys Gly Cys Val Asn Ser Ser Ala Ser Val Ala Val Glu Gly Ser 755 760 765

Glu Asp Lys Gly Ser Met Glu Ile Val Ile Leu Val Gly Thr Gly Val 770 775 780

lle Ala Val Phe Phe Trp Val Leu Leu Leu lle Phe Cys Asn Met 785 790 795 800

Arg Arg Pro Ala His Ala Asp lle Lys Thr Gly Tyr Leu Ser lle lle 805 810 815

Met Asp Pro Gly Glu Val Pro Leu Glu Glu Glu Glu Cys Glu Tyr Leu Ser 820 825 830

Tyr Asp Ala Ser Gln Trp Glu Phe Pro Arg Glu Arg Leu His Leu Gly 835 840 845

Arg Val Leu Gly Tyr Gly Ala Phe Gly Lys Val Val Glu Ala Ser Ala 850 855 860

Phe Gly lle His Lys Gly Ser Ser Cys Asp Thr Val Ala Val Lys Met 865 870 875 880

Leu Lys Glu Gly Ala Thr Ala Ser Glu His Arg Ala Leu Met Ser Glu 885 890 895 Leu Lys IIe Leu IIe His IIe Gly Asn His Leu Asn Val Val Asn Leu 900 905 910

Leu Gly Ala Cys Thr Lys Pro Gln Gly Pro Leu Met Val Ile Val Glu 915 920 925

Phe Cys Lys Tyr Gly Asn Leu Ser Asn Phe Leu Arg Ala Lys Arg Asp 930 935 940

Ala Phe Ser Pro Cys Ala Glu Lys Ser Pro Glu Gln Arg Gly Arg Phe 945 950 955 960

Arg Ala Met Val Glu Leu Ala Arg Leu Asp Arg Arg Pro Gly Ser 965 970 975

Ser Asp Arg Val Leu Phe Ala Arg Phe Ser Lys Thr Glu Gly Gly Ala 980 985 990

Arg Arg Ala Ser Pro Asp Gln Glu Ala Glu Asp Leu Trp Leu Ser Pro 995 1000 1005

Leu Thr Met Glu Asp Leu Val Cys Tyr Ser Phe Gln Val Ala Arg 1010 1015 1020

Gly Met Glu Phe Leu Ala Ser Arg Lys Cys lle His Arg Asp Leu 1025 1030 1035

Ala Ala Arg Asn Ile Leu Leu Ser Glu Ser Asp Val Val Lys Ile 1040 1045 1050

Cys Asp	Phe Gly Leu Ala Arg	Asp Ile Tyr Lys Asp	Pro Asp Tyr
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Val Arg Lys Gly Ser Ala Arg Leu Pro Leu Lys Trp Met Ala Pro 1070 1075 1080

Glu Ser Ile Phe Asp Lys Val Tyr Thr Thr Gln Ser Asp Val Trp 1085 1090 1095

Ser Phe Gly Val Leu Leu Trp Glu lle Phe Ser Leu Gly Ala Ser 1100 1105 1110

Pro Tyr Pro Gly Val Gln lle Asn Glu Glu Phe Cys Gln Arg Leu 1115 1120 1125

Arg Asp Gly Thr Arg Met Arg Ala Pro Glu Leu Ala Thr Pro Ala 1130 1135 1140

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